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1 Pen computing: a technology overview and a vision
André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

2 Exokernel: an operating system architecture for application-level resource management
D. R. Engler, M. F. Kaashoek, J. O'Toole
December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles**, Volume 29 Issue 5
Full text available: pdf(2.16 MB) Additional Information: full citation, references, citings, index terms

3 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 A direct signaling system for flexible access and deployment of telecommunication services

Thomas F. La Porta, Kuo-Wei Herman Chen
August 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 4
Full text available: pdf(219.51 KB) Additional Information: full citation, references, index terms

Keywords: ISDN, intellignet networks, signaling

5 A structural view of the Cedar programming environment
Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann
August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4
Full text available: pdf(6.32 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

6 Process migration
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3
Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

7 Level II technical support in a distributed computing environment
Tim Leehane
September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**
Full text available: pdf(5.73 MB) Additional Information: full citation, references, index terms

8 Disco: running commodity operating systems on scalable multiprocessors
Edouard Bugnion, Scott Devine, Kinshuk Govil, Mendel Rosenblum
November 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 4
Full text available: pdf(400.76 KB) Additional Information: full citation, abstract, references, citings, index terms, review

In this article we examine the problem of extending modern operating systems to run efficiently on large-scale shared-memory multiprocessors without a large implementation effort. Our approach brings back an idea popular in the 1970s: virtual machine monitors. We use virtual machines to run multiple commodity operating systems on a scalable

multiprocessor. This solution addresses many of the challenges facing the system software for these machines. We demonstrate our approach with a prototy ...

Keywords: scalable multiprocessors, virtual machines

9 Interconnecting heterogeneous computer systems

David Notkin, Andrew P. Black, Edward D. Lazowska, Henry M. Levy, Jan Sanislo, John Zahorjan
March 1988 **Communications of the ACM**, Volume 31 Issue 3

Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, citings, index terms

A software structure created by the Heterogeneous Computer Systems (HCS) Project at the University of Washington was designed to address the problems of heterogeneity that typically arise in research computing environments.

10 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available: pdf(233.31 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

11 Programming languages as operating systems (or revenge of the son of the lisp machine)

Matthew Flatt, Robert Bruce Findler, Shriram Krishnamurthi, Matthias Felleisen
September 1999 **ACM SIGPLAN Notices , Proceedings of the fourth ACM SIGPLAN international conference on Functional programming**, Volume 34 Issue 9

Full text available: pdf(1.30 MB) Additional Information: full citation, abstract, references, citings, index terms

The MrEd virtual machine serves both as the implementation platform for the DrScheme programming environment, and as the underlying Scheme engine for executing expressions and programs entered into DrScheme's read-eval-print loop. We describe the key elements of the MrEd virtual machine for building a programming environment, and we step through the implementation of a miniature version of DrScheme in MrEd. More generally, we show how MrEd defines a high-level operating system for graphical prog ...

12 Workshop on compositional software architectures: workshop report

May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Full text available: pdf(2.91 MB) Additional Information: full citation, index terms

13 TAE Plus: Transportable Applications Environment Plus: a user interface development environment

Martha R. Szczur, Sylvia B. Sheppard

January 1993 **ACM Transactions on Information Systems (TOIS)**, Volume 11 Issue 1

Full text available: pdf(1.99 MB) Additional Information: full citation, abstract, references, citings, index terms

The Transportable Applications Environment Plus (TAE Plus) is a NASA-developed user interface development environment (UIDE) for the rapid prototyping, evaluation, implementation, and management of user interfaces. TAE Plus provides an intuitive What You See Is What You Get (WYSIWYG) WorkBench for designing an application's user interface. The WorkBench supports the creation and sequencing of displays, including real-time, data-driven display objects. Users can define context-sensitive help ...

Keywords: graphical user interfaces, prototyping, user interface development tools

14 Introduction to network programming with APL

Andrei Kondrashev

December 1996 **ACM SIGAPL APL Quote Quad**, Volume 27 Issue 2

Full text available: pdf(1.18 MB) Additional Information: full citation, index terms

15 DROPS: OS support for distributed multimedia applications

Hermann Härtig, Robert Baumgartl, Martin Borriss, Claude-Joachim Hamann, Micheal Hohmuth, Frank Mehnert, Lars Reuther, Sebastian Schönberg, Jean Wolter

September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications**

Full text available: pdf(854.33 KB) Additional Information: full citation, index terms

16 VAXcluster: a closely-coupled distributed system

Nancy P. Kronenberg, Henry M. Levy, William D. Strecker

May 1986 **ACM Transactions on Computer Systems (TOCS)**, Volume 4 Issue 2

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, citings, index terms

A VAXcluster is a highly available and extensible configuration of VAX computers that operate as a single system. To achieve performance in a multicomputer environment, a new communications architecture, communications hardware, and distributed software were jointly designed. The software is a distributed version of the VAX/VMS operating system that uses a distributed lock manager to synchronize access to shared resources. The communications hardware includes a 70 megabit per second message ...

17 APPL/A: a language for software process programming

Stanley M. Sutton, Dennis Heimbigner, Leon J. Osterweil

July 1995 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 4 Issue 3

Full text available: pdf(4.89 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Software process programming is the coding of software processes in executable programming languages. Process programming offers many potential benefits, but their realization has been hampered by a lack of experience in the design and use of process programming languages. APPL/A is a prototype software process programming language

developed to help gain this experience. It is intended for the coding of programs to represent and support software processes including process, product, and p ...

Keywords: consistency management, multiparadigm programming languages, software process programming, transaction management

18 A high-level abstraction of shared accesses

Peter J. Keleher

February 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 1

Full text available: pdf(183.57 KB) Additional Information: full citation, abstract, references, index terms, review

We describe the design and use of the tape mechanism, a new high-level abstraction of accesses to shared data for software DSMs. Tapes consolidate and generalize a number of recent protocol optimizations, including update-based locks and recorded-replay barriers. Tapes are usually created by "recording" shared accesses. The resulting recordings can be used to anticipate future accesses by tailoring data movement to application semantics. Tapes-based mechanisms a ...

Keywords: DSM, programming libraries, shared memory, update protocols

19 Evaluation of design alternatives for a multiprocessor microprocessor

Basem A. Nayfeh, Lance Hammond, Kunle Olukotun

May 1996 **ACM SIGARCH Computer Architecture News , Proceedings of the 23rd annual international symposium on Computer architecture**, Volume 24 Issue 2

Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, citings, index terms

In the future, advanced integrated circuit processing and packaging technology will allow for several design options for multiprocessor microprocessors. In this paper we consider three architectures: shared-primary cache, shared-secondary cache, and shared-memory. We evaluate these three architectures using a complete system simulation environment which models the CPU, memory hierarchy and I/O devices in sufficient detail to boot and run a commercial operating system. Within our simulation envir ...

20 Session 24: software tools: A portable debugger for parallel and distributed programs

Doreen Cheng, Robert Hood

November 1994 **Proceedings of the 1994 ACM/IEEE conference on Supercomputing**

Full text available: pdf(996.90 KB) Additional Information: full citation, abstract, references, citings

We describe the design and implementation of a portable debugger for parallel and distributed programs. The design incorporates a client-server model in order to isolate non-portable debugger code from the user interface. The precise definition of a protocol for client-server interaction facilitates a high degree of client portability. Replication of server components permits the implementation of a debugger for distributed computations.Portability across message passing implementations is achie ...

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